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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/876,190	06/06/2001	J. William Whikehart	199-2062 (VGT 0179 PUS)	9108

7590 10/28/2004
Artz & Artz, P.C.
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Southfield, MI 48034

EXAMINER

KNOWLIN, THJUAN P

ART UNIT	PAPER NUMBER
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2642

DATE MAILED: 10/28/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/876,190

Applicant(s)

WHIKEHART ET AL.

Examiner

Thjuan P Knowlin

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
 - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
 - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
 - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 June 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 June 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-8 are rejected under 35 U.S.C. 102(e) as being anticipated by Claxton et al (US 6,741,847).
2. In regards to claims 1 and 6, Claxton discloses a receiver (receiver 10 and receiver 60) and method for simultaneously processing multiple channels in a broadcast band (Abstract and col. 2 lines 13-20), said receiver comprising: at least one antenna (antenna 12) for receiving analog RF signals (col. 3 lines 39-47); a plurality of tunable bandpass filters (BPF 32), each filter for filtering said analog RF signals, each bandpass filter for tuning to a desired frequency (col. 5 lines 29-52); a summer (summation 180) for summing said multiple desired signals into one summed signal (col. 9 lines 4-13); a digitizer (comparator 186) for digitizing said summed signal (col. 9 lines 14-29); and a digital tuner (digital sub-band tuners (DSBT) 274) capable of simultaneously processing multiple desired signals from said digitized signal (col. 11 lines 34-47).

3. In regards to claims 2 and 7, Claxton discloses the receiver, wherein at least two tunable bandpass filters in said plurality of tunable bandpass filters are tuned to the same desired frequency and combine to draw maximum power for reception of said desired frequency (col. 2 lines 13-27, col. 3-4 lines 63-7, and col. 11 lines 49-63).

4. In regards to claim 3, Claxton discloses the receiver, wherein at least one tunable bandpass filter in said plurality of tunable bandpass filters is tuned to a first frequency and another of said tunable bandpass filters in said plurality of tunable bandpass filters is tuned to a second desired frequency that is different than said first desired frequency for simultaneous reception of at least two different frequencies (col. 1-2 lines 64-10 and col. 3 lines 25-47).

5. In regards to claim 4, Claxton discloses the receiver, further comprising an automatic gain controller (resistor R3 and capacitor C1) and an amplifier (amplifier 82) at the respective output of each of said plurality of bandpass filters (col. 7 lines 23-33 and col. 7 lines 49-54).

6. In regards to claims 5 and 8, Claxton discloses the receiver, further comprising at least one tunable bandpass filter in said plurality of said tunable bandpass filters being tuned to a first desired frequency and another of said tunable bandpass filters in said plurality of said tunable bandpass filters being tuned to a second undesired frequency (col. 1-2 lines 64-10 and col. 3 lines 25-47); and wherein said automatic gain controller and amplifier at said output of said tunable bandpass filters that is tuned to said undesired frequency is set at a minimum gain for absorbing said undesired frequency

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and providing additional receiving power for said first desired frequency (col. 7 lines 23-33 and col. 7 lines 49-54).

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Kishimoto et al (US 6,314,083) teach a frequency control device and method for frequency synchronization with multiplex signal by OFDM, receiving device, and communication device. Birleson (US 6,714,776) teaches a system and method for an image rejecting single conversion tuner with phase error correction.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thjuan P Knowlin whose telephone number is (703) 308-1727. The examiner can normally be reached on Mon-Fri 8:00-4:30pm.

9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar can be reached on (703)305-4731. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Thjuan P. Knowlin

HECTOR A. AGDEPPA
PATENT EXAMINER

A handwritten signature in black ink, appearing to read 'H. Agdeppa', written over the printed name and title.